



**Fig. 1 Schematic Representation of the MOG Proteins**

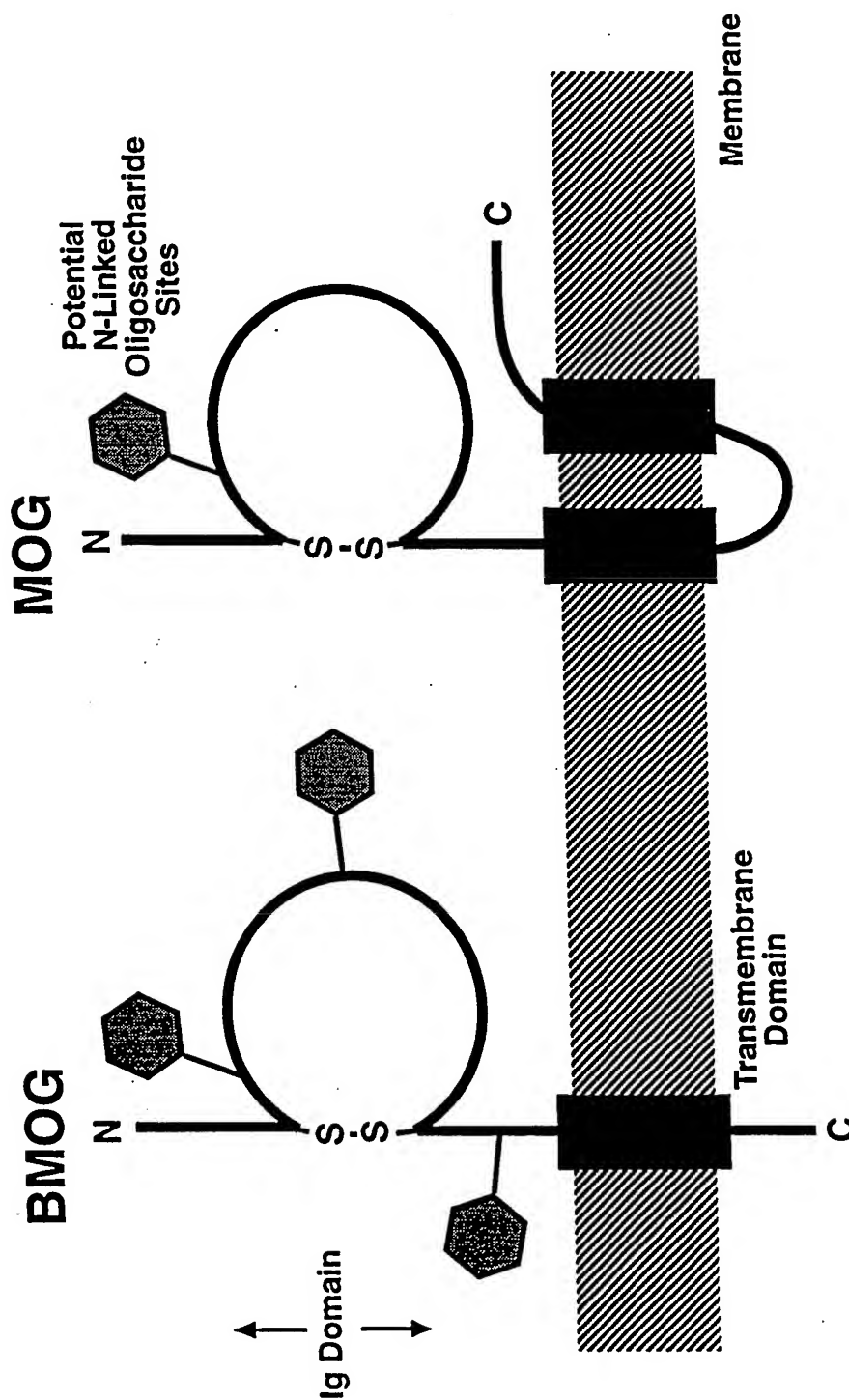




Fig.2 Human BMOG Protein Structure

MAWMLLLILIMVHPGSCALWVSQPPPEIRTEGSSAFLPCSFNASQGRILAIGSVTWFRDEVV  
10 20 30 40 50 60  
PGKEVRNGTPEFRGRRLAPLASSRFLHDHQAELHIRDVVRGHDASIYVCRVELGLGVGTGNG  
70 80 90 100 110 120  
TRLVVEKEHPQLGAGTVLLLRAGEYAVSELSVAVGSTVYYHGK...  
130 140 150 160  
..CHCHMGTHCHSSDGRGVIPERCP  
..YAKSTLSGFPQL  
..CLTWKGPRLPAVVPAPLPFPFGSSAHLPPVPFGG  
170 180 190



Fig.3  
Alignment of the First Extracellular Ig Domain of BMOG, MOG,  
Butyrophilin, B-G and B7

hu-1C7	MAWMLLLILIMVHPGSCAL-----WVSQPPEIRTLLEGSSAFLPC-----SFNASQGR
hu-MOG	MASLSRPSLPSCLCSFLLLLQVSSSYAGQFRVIGRPHPIRALVGDEVELPCRI--SPGKNATG
rat-MOG	MAGVWSLSLPSCLLSLLLL--QLSRSYAGQFRVIGRPHPIRALVGDEAELPCRI--SPGKNATG
mo-MOG	MACLWSFSWPSCFLSLLLLLLQSCSYAGQFRVIGRPHPIRALVGDEAELPCRI--SPGKNATG
ch B-G	MAFTSGCNHPSFTLPWRTLLPYLVALHLLQPGSAQITVVASLRTV--AIVGQDVVLRCHL--SPCKDVRN
hu-Bu	MASSLAFLLLNFHVSLLLVQLLTPC--SAQFSVLGSPGPILAMVGEDADLPCHL--FPTMSAET
bov-Bu	MAVFPNSQLAGCLLIFILLQLPKLD--SAPFDVIGPPEPILAVVGEDAEALPCRL--SPNVSAKG
hu-B7-1	MGHTRRQGTSPSKCPYLNFFQLVLGLSHFCSGVIHVTKEVATLSQGH-NVSVLELAQ
hu-B7-2	MGLSNILEFVMAFLLSGAAPLKIQAQYFNETADLPCCQFANSONQSLSE
hu-1C7	LAIGSVTWFR-DEVVPGKEVRNGT-----PEFRGLAPLASSRFLHDHQAEHLHIRDVRGHDASIYVC
hu-MOG	MEVG---WYRPPFSRVVHLRYNGKDQDQAEYRGR-TELLKDAIGEGKVT-LRIQNVRFSDGEGFTC
rat-MOG	MEVG---WYRSPFSRVVHLRYNGKDQDQAEYRGR-TELLKESIGEGKVA-LRIQNVRFSDGEGYTC
mo-MOG	MEVG---WYRSPFSRVVHLRYNGKDQDQAEYRGR-TELLKETISEGKVT-LRIQNVRFSDGEGYTC
ch B-G	SDIR---WIQQRSSRLVHRYRNGVDL--GQMEYKGR-TELLRDGLSDGNLD-LRITAVTSSDSGYSYC
hu-Bu	MELK---WVSSSLRQVNVNADGKEVEDRQSAFYRGR-TSILRDGITAGKAA-LRIHNVITASDSGQLEEC
bov-Bu	MELR---WFREKVSFAVFSRREGQEQEGEEMAEYRGR-VSLVEDHIAEGSVA-VRIQEVKASDDGEYRC
hu-B7-1	TRIY---WQ-KEKKMVLTMW-SGDMN---IWPEYKNR-TIF--DITN--NLSIVILALRPSDEGTYES
hu-B7-2	LIVF---WQ-DQENLVILNEVYLGKEKFDVSHSKYMGR-TSF--D-SD---SWTTLRLHNLQIKDKGLYQC
hu-1C7	RVELGLGVGTNGTRLVVEKEHPQLGAGTVLLLLRAGFYAVSFLSVAVGSTVYY
hu-MOG	FFRDHSYQEEAAAME-LKVEDPFXWVSPGVLLVLLAVLPVLLLOITVGLVFLCL
rat-MOG	FFRDHSYQEEAAAVE-LKVEDPFXWINPQVLAIALVPMMLLLOVSVGLVLELEL
mo-MOG	FFRDHSYQEEAAAME-LKVEDPFXWNPQVLTLLIALVPTILLLOVSVGLVLELEL
hu-Bu	(second Ig domain) .....
bov-Bu	(second Ig domain) .....
hu-B7-1	(second Ig domain) .....
hu-B7-2	(second Ig domain) .....

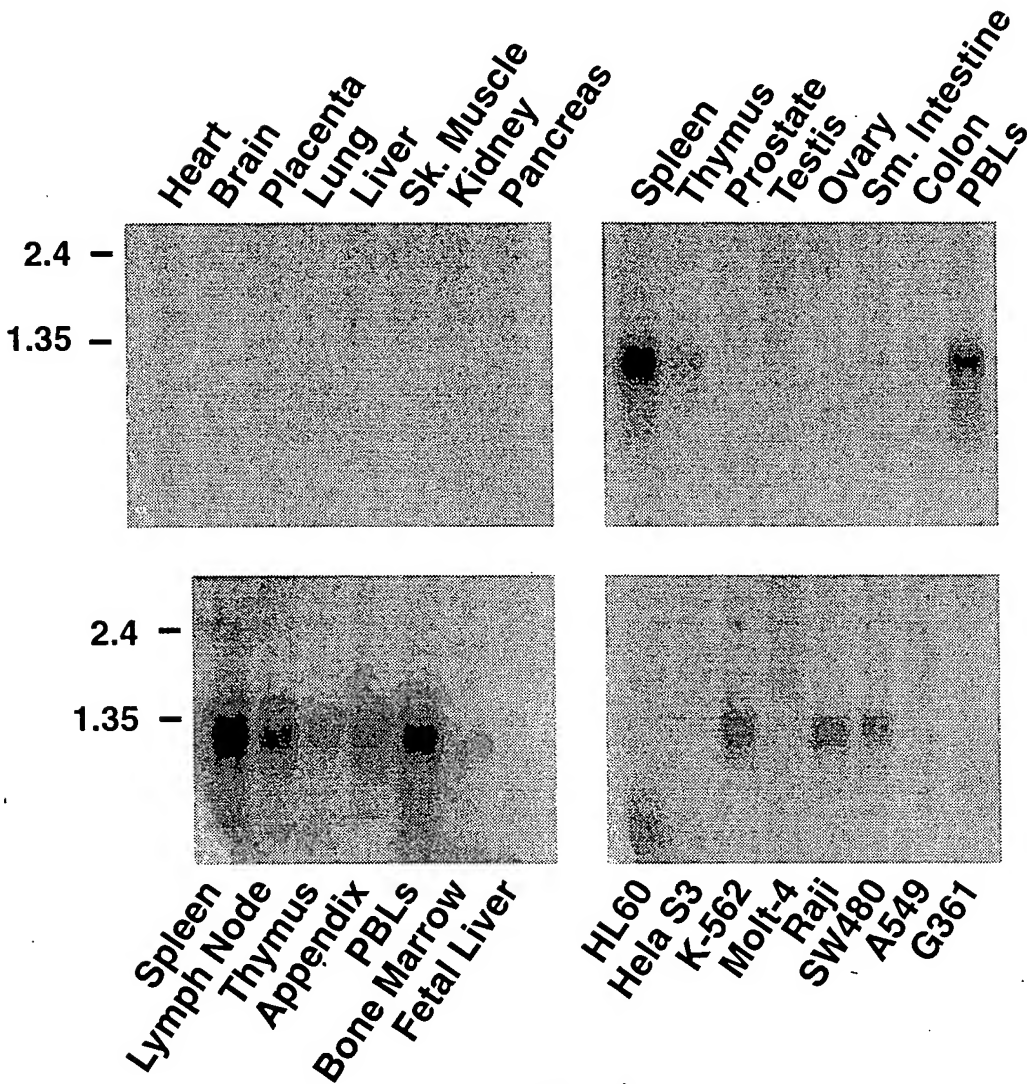


FIG. 4

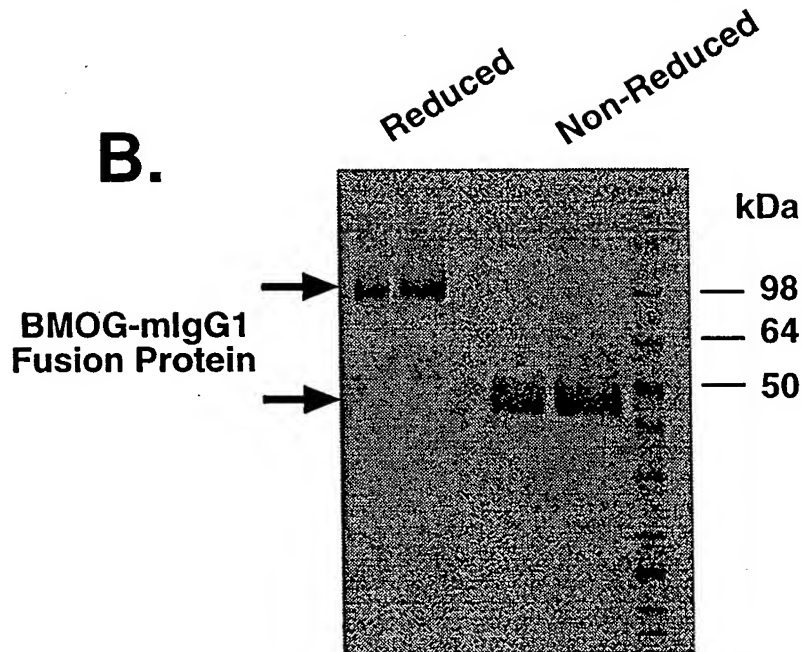
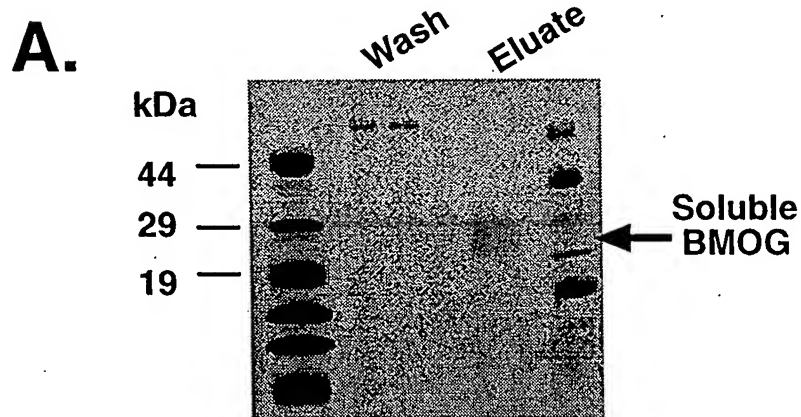


FIG. 5